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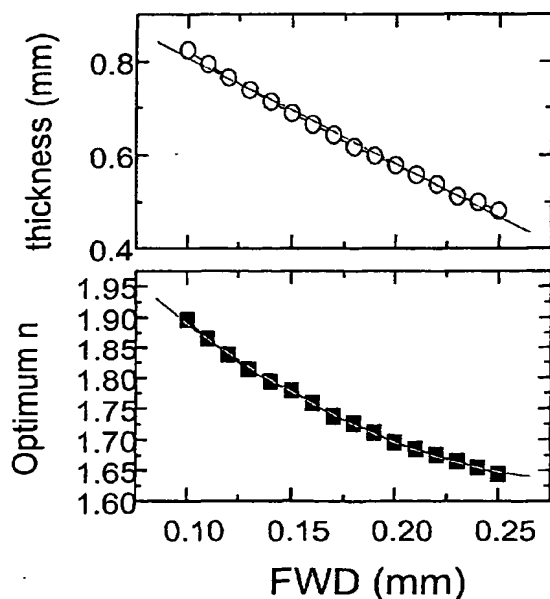
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(54) Title: SCANNING DEVICE INCLUDING AN OBJECTIVE SYSTEM FORMED OF A SINGLE MATERIAL



$$0.8 < \frac{t}{1.18 - 2.28 \left[FWD + \frac{t_d}{n_d} \right]} < 1.2 \quad (I)$$

(57) Abstract: An optical scanning device (1) for scanning an information layer (4) of an optical record carrier (2), the device (1) comprising a radiation source (11) for generating a radiation beam (12, 15, 20) and an objective system (18) for converging the radiation beam on the information layer, the information layer being covered by a transparent layer (3) of thickness t_d and refractive index n_d . The objective system comprises a lens formed of a single material. The lens satisfies the condition: Formula (I), where t is the thickness of the lens, FWD is the free working distance between the lens (18) and the carrier (2), where t , t_d and FWD are expressed in millimetres, and where $FWD + t_d/n_d < 0.51$.



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B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

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☒ Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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